ACME®

GENESIS COLORⅡ

LED-CC 20Ⅱ

User Guide

Professional Entertainment Technology

Innovation, Quality, Performance

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EC Declaration of Conformity

We declare that our products (lighting equipments) comply
with the following specification and bears CE mark in
accordance with the provision of the Electromagnetic
Compatibility (EMC) Directive 89/336/EEC.

EN55103-1:1996; EN55103-2:1996;
EN61000-3-2:2006; EN:61000-3-3:1995+A1:2001+A2:2005.

&

Harmonized Standard

EN60598-1:2004; EN60598-2-4:1997.
Safety of household and similar electrical appliances
Part 1: General requirements

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

• Clean with soft cloth using normal glass cleaning fluid.
• Always dry the parts carefully.
• Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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⚠️ **WARNING**

Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

• Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
• Unpack and check carefully there is no transportation damage before using the unit.
• Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
• It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
• The unit is for indoor use only. Use only in a dry location.
• The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
• Disconnect main power before replacement or servicing.
• Make sure there is no flammable materials close to the unit while operating as it is fire hazard.
• Use safety cable when fixes this unit.
• Maximum ambient temperature is TA: 40℃. Don't operate it where the temperature is higher than this.
• Unit surface temperature may reach up to 85℃. Don't touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
• In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
• Do not touch any wire during operation as high voltage might be causing electric shock.

Warning
• To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
• Do not open the unit within five minutes after switching off.

5. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work
1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller
1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

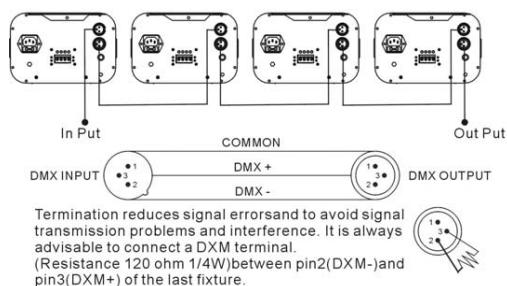**C. Some units don't respond to the easy controller**
1. You may have a break in the DMX cabling. Check the LED for the response of the master/ slave mode signal.
2. Wrong DMX address in the unit. Set the proper address.

D. No response to the sound
1. Make sure the unit does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone

E. One of the channels is not working well
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

Termination reduces signal errorsand to avoid signal transmission problems and interference. It is always advisable to connect a DXM terminal. (Resistance 120 ohm 1/4W)between pin2(DXM-)and pin3(DXM+) of the last fixture.

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when power is disconnected to the unit.
5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
           Pin 4/5: Not used.

• The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 20 kg for each unit.

2. Technical Specification

• The unit is DMX 512 fixture. It features full DMX 512 control. It can be also linked together in master/slave connection, as many as required and run by built-in program chase sequences automatically or by sound activation through an internal microphone to create an intelligent effect.
• It can be operated by DMX 512 control or can be used as an individual unit without a controller.
• Features different preprogrammed chase patterns.
• Please use a cable when connecting units together.
• Accurate focusable optics system and ultra smooth stepping motors.
• Fan cooled.

• Voltage：AC 230V/240V/250V- 50HZ~120V-60HZ
• Fuse: T 2A
• Power consumption: 31W
• Light source: 10W CREE LED
• Dimension: 206 x 199 x 187 mm
• Weight: 2.4 kg
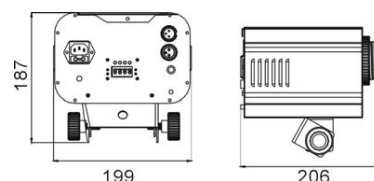
3. How To Set The Unit

3.1 Control Panel
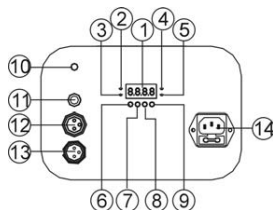
① **Display**：To show the various menus and the selected functions

LED

② DMX	On	DMX input present
③ MASTER	On	Master Mode
④ SLAVE	On	Slave Mode
⑤ SOUND	Flashing	Sound activation

Button

⑥ MENU	To select the programming functions
⑦ DOWN	To go backward in the selected functions
⑧ UP	To go forward in the selected functions
⑨ ENTER	To confirm the selected functions

⑩ **Sensitivity:** To adjust the sound receiving sensitivity

⑪ **Only for remote control:** By connect to the 1/4'' microphone jack to control the unit for Stand by, Function and Mode function.

⑫ **DMXoutput:** For DMX512 link, use 3-pin XLR plug cable to link to the next unit.

⑬ **DMX input:** For DMX512 link, use 3-pin XLR plug cable to input DMX signal.

⑭ **Mains input**：IEC socket and integrated fuse holder, connect to main power cable.

4.4 DMX 512 Configuration

4.5 DMX512 Connection

The DMX 512 is widely used in intelligent lighting control, with a maximum of 512 channels.

4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show.

2-light show

In `SLNd` (slave mode), `SL 1` means the unit works normally and `SL 2` means 2-light show. In order to create a great light show, you can set `SL 2` on the second unit to get contrast movement to each other, even if you have two units only.

4.2 Easy Controller

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote control on the first unit will control all the other units functions press the MENU button again.

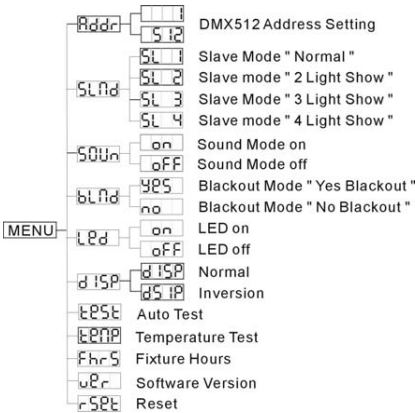| Stand By	Blackout the unit	
Function	1. Sync. Strobe	Select Color
	2. Async strobe	
	3. Sound Strobe	
Mode	Sound (LED OFF)	Show (LED On)
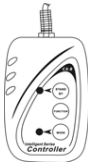
4.3 DMX Controller

An universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the MENU button up to when the `Addr` is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to change the DMX512 address. Once the address has been selected, press and keep ENTER button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the MENU button again. If you use please refer to the following diagram to address your DMX512 channel for the first 4 units.

3.2 Main Function

To select any of the given functions, press the MENU button up to when the required one is showing on the display. Select the function by ENTER button and the display will blink. Use DOWN and UP button to change the mode. Once the required mode has been selected, press the ENTER button to setup or it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the MENU button. The main functions are showing below:

Addr	512	DMX512 Address Setting
SLNd	SL 1	Slave Mode " Normal "
	SL 2	Slave mode " 2 Light Show "
	SL 3	Slave mode " 3 Light Show "
	SL 4	Slave mode " 4 Light Show "
SOUn	on	Sound Mode on
	oFF	Sound Mode off
bLNd	yes	Blackout Mode " Yes Blackout "
	no	Blackout Mode " No Blackout "
Led	on	LED on
	oFF	LED off
dISP	dISP	Normal
	dSIP	Inversion
tESt		Auto Test
tEnP		Temperature Test
FhrS		Fixture Hours
uEr		Software Version
rSEt		Reset

MENU

`Addr` DMX 512 Address Setting

Press the MENU button up to when the `Addr` is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to change the DMX512 address. Once the address has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the MENU button again.

`SLNd` Slave Mode

Press the MENU button up to when the `SLNd` is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the `SL 1` (normal) or `SL 2` (2 light show) `SL 3` (3 light show) `SL 4` (4 light show) mode. Once the mode has been selected, press the ENTER button to setup or automatically return

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to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

[**SOUn**] Sound Mode

Press the **MENU** button until the [**SOUn**] is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the [**on**] (sound on) or [**oFF**] (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

[**bLNd**] Blackout Mode

Press the **MENU** button up to when the [**bLNd**] is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the [**YES**] (yes blackout) or [**no**] (no blackout) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

[**LEd**] Led Display

Press the **MENU** button up to when the [**LEd**] is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the [**on**] (Led on) or [**oFF**] (Led off) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

[**dISP**] Inversion

Press the **MENU** button up to when the [**dISP**] is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the [**dISP**] (normal) or [**dSIP**] (inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again.

[**tPSt**] Auto Test

Press the **MENU** button up to when the [**tPSt**] is blinking on the display. Pressing

ENTER button and the display will run self-test by built-in program. To go back to the functions press the **MENU** button again.

[**tPNP**] Temperature Test

Press the **MENU** button up to when the [**tPNP**] is blinking on the display. Pressing **ENTER** button and the display will show the temperature of the unit. To go back to the functions press the **MENU** button again.

[**FhrS**] Fixture Hours

Press the **MENU** button up to when the [**FhrS**] is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again.

[**uPr**] Software version

Press the **MENU** button up to when the [**uPr**] is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again.

[**rSPt**] Reset

Press the **MENU** button up to when the [**rSPt**] is blinking on the display. Pressing **ENTER** button and all channels of the unit will return to their standard position. To go back to the functions without any change press the **MENU** button again.

4. How To Control The Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By easy controller
3. By universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show [**cc20**] on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built in programs.